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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/024,326	12/14/2001	Candice Hellen Brown Elliott	CLRV-002	6650
42304	7590	06/28/2004	EXAMINER	
CLAIRVOYANTE, INC. 874 GRAVENSTEIN HIGHWAY SOUTH, SUITE 14 SEBASTOPOL, CA 95472			LAO, LUN YI	
			ART UNIT	PAPER NUMBER
			2673	21

DATE MAILED: 06/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

10/024,326

**Applicant(s)**BROWN ELLIOTT, CANDICE  
HELLEN**Examiner**

Lao Y Lun

**Art Unit**

2673

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 12 May 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-25 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 14 December 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 16 and 20.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

**DETAILED ACTION**

***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-19 and 21-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bohlendorf(DE 199,23,527A1) in view of Yap et al(6,037,719).

As to claims 1-19 and 21-25, Bohlendorf et al teach an LED display array comprising a blue emitter in a center of a pixel; a pair of red emitters spaced apart from the blue emitter and symmetrically disposed about the emitter in second and fourth quadrants; a pair of green emitters spaced apart from the blue emitter and symmetrically disposed about the emitter in first and third quadrants(see figure 2 and claims 1-9). Bohlendorf teach the blue emitters are half resolution of red and green emitters(B:R:G=1:2:2)(see figure 2).

Bohlendorf fails to teach and a transistor and a capacitor coupled to an emitter; and transistors connected to red and green emitters grouped together at interstitial corners.

Yap et al teach a transistor(22 or 24) and a capacitor(38) coupled to an LED(12)(see figure 2 and column 3, lines 36-67) and transistors(22, 24) located at

interstitial corners(see figures 1-2 and column 3, lines 10-41). It would have been obvious to have modified Bohlendorf with the teaching of Yap et al, so as to avoid to block the light of an emitter.

As to claims 15-16, Bohlendorf teach a radiance value of red emitters and green emitters is equal(the radio of color can be changed)(see figure 2 and pages 6-7 of the Translation from the German).

As to claim 19, Bohlendorf as modified teach each emitter is independently addressable(see Bohlendorf's page 1, lines 3-11 and page 2, lines 1-9; and Yap et al's figure 2).

3. claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bohlendorf(DE 199,23,527A1) in view of Yap et al(6,037,719) and Brown(5,184,114).

Bohlendorf as modified fail to disclose an emitter is driving by analog signal.

Brown teach an emitter(LED) driven by analog signal(see figures 14; column 9, lines 31-36 and column 10, lines 17-34). It would have been obvious to have modified Bohlendorf as modified with the teaching of Brown, since the emitter could be either driven by digital signals(see Brown's figure 8; column 3, lines 29-31; column 5, lines 58-68 and column 6, lines 1-15) or analog signals(see Brown's figure 14).

### ***Conclusion***

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Martin et al(6,714,206) teaches a display having a picture having blue sub-pixel in the middle; a pair of green sub-pixels and a pair of red sub-pixels.

Ikeda(6,476,416) teaches a display system having a TFT transistor located on the corner of a pixel.

Wilson(6,507,350) teach a display having a RGB pixel.

5. Applicant's arguments with respect to claims 1-25 have been considered but are moot in view of the new ground(s) of rejection.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lun-yi, Lao whose telephone number is (703) 305-4873.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala, can be reached at (703) 305-4938.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

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Art Unit: 2673

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June 22, 2004

*L. J. Lao*  
**Lun-yi Lao**  
**Primary Examiner**